PCG-V505G/V505T4/V505VZ
PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP
PCG-V505DP
PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP
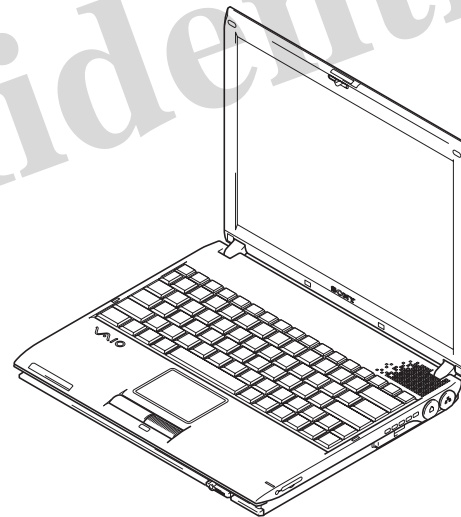
SERVICE MANUAL

Ver. 6 2004D

Revision History

Area	Model	Lineup		
Japanese	Japanese	PCG-V505G/B PCG-V505T4∗ PCG-V505T4/P∗ PCG-V505VZ/P		
American	US Canadian	PCG-V505EC∗	⚠3	[MA]
		PCG-V505ECP∗	⚠3	[MA]
		PCG-V505EX	⚠3	[MA]
		PCG-V505EXP	⚠3	[MA]
	Latin	PCG-V505NFP	⚠5	[MA]
European	AEP/UK	PCG-V505DP	⚠3	[MA]
Asian/Oceania/ South Africa	Chinese	PCG-V505MNCP	⚠4	[MA]
		PCG-V505MNJP	⚠5	[MA]
	International	PCG-V505MNP	⚠2	[MA]
	Thai	PCG-V505MNSP	⚠2	[MA]
	Taiwan	PCG-V505NTP	⚠4	[MA]

∗ : CTO Model

Wi-Fi® CERTIFIED   **MEMORY STICK™**   **i. S400™**

VAIO

- Design and specifications are subject to change without notice.

- 本機の仕様および外観は、改良のため予告なく変更することがありますが、ご了承ください。

NOTEBOOK COMPUTER

SONY®

Information in this document is subject to change without notice.

Sony, VAIO and CLIE are trademarks or registered trademarks of Sony. Microsoft,Windows, Windows Media, Outlook, Bookshelf and other Microsoft products are trademarks or registered trademarks of Microsoft Corporation in the United States and other countries.The word Bluetooth and the Bluetooth logo are trademarks of Bluetooth SIG, Inc. AMD, AMD logo, AMD Duron and combinations there of, 3DNow!, are trademarks of Advanced Micro Devices, Inc. Intel Inside logo, Pentium and Celeron are trademarks or registered trademarks of Intel Corporation. Transmeta, the Transmeta logo, Crusoe Processor, the Crusoe logo and combinations there of are trademarks of Transmeta Corporation in the USA and other countries. Graffiti, HotSync, PalmModem, and Palm OS are resistered trademarks, and the Hotsync logo and Palm are trademarks of Palm,Inc. or its subsidiaries. (M) and Motrola are trademarks of Motrora, Inc. Other Motrola products and services with (R) mark like Dragomball are the trademarks of Motrola, Inc.

All other names of systems, products and servicesin this manual are trademarks or registered trademarks of their respective owners. In this manual, the (TM) or (R) mark are not specified.

<u>Caution Markings for Lithium/Ion Battery</u> - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100ºC (212ºF) or incinerate. Dispose of used battery promptly. Keep away from children.

CAUTION: Changing the back up battery.
• Overcharging, short circuiting, reverse charging, multilati on or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
• If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify are as requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the ⚠ mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original designwhen mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure toduplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

• The temperature of the soldering-iron tip should be about 270ºC.
• Do not apply the tip more than three times to the same pattern.
• Handle patterns with care; never apply force.

Caution: Remember that hard disk drives areeasily damaged by vibration. Always handlewith care.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!
LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANSCE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

Confidential

PCG-V505G/V505T4/V505VZ (J)
PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
PCG-V505DP (EU)
PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)

TABLE OF CONTENTS

History of the changes is shown as the "Revision History" at the end of this data.

変更履歴は，"Revision History"として，本データ末に記載してあります。

CHAPTER 1.

SPECIFICATIONS

1-1. Specifications

		J				AM			
	PCG-V505G/B	PCG-V505VZ/P	PCG-V505T4*	PCG-V505T4/P*	PCG-V505EXP	PCG-V505EX	PCG-V505EC	PCG-V505ECP	PCG-V505NFP
CPU	PM-1.5GHz	PM-1.5GHz	PM-1.8GHz or PM-1.5GHz		PM-1.5GHz	PM-1.5GHz	PM-1.8GHz or PM-1.7GHz or PM-1.5GHz or PM-1.4GHz or Mobile Cel1.2GHz		PM-1.5GHz
LCD	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA
HDD	40GB	40GB	80GB or 60GB or 40GB		60GB	60GB	80GB or 60GB or 40GB		40GB
Graphic	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)
MEMORY1	256MB × 1	256MB × 1	1GB × 2 or 512MB × 2 or 512MB × 1 or 256MB × 1		256MB × 2	256MB × 2	1GB × 2 or 1GB × 1 or 512MB × 2 or 512 × 1or 256 × 2 or 256MB × 1		256MB × 1
QUANTITY [MAX]	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB
OPT-DRIVE	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM or DVD-RW		CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM or DVD-RW		CD-RW/DVD-ROM
internal W-LAN	○	○	○	○	○	○	○ or None	○ or None	○
AC adaptor	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AV16V6
Battery	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V or PCGA-BP4V		PCGA-BP2V
OS	WinXP Home	WinXP Pro	WinXP Home	WinXP Pro	WinXP Pro	WinXP Home	WinXP Home	WinXP Pro	WinXP Pro
					△3 [MA]	△3 [MA]	△3 [MA]	△3 [MA]	△5 [MA]

	EU	AO				
	PCG-V505DP	PCG-V505MNP	PCG-V505MNSP	PCG-V505NTP	PCG-V505MNCP	PCG-V505MNJP
CPU	PM-1.6GHz	PM-1.6GHz	PM-1.6GHz	PM-1.6GHz	PM-1.6GHz	PM-1.6GHz
LCD	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA	12.1XGA
HDD	60GB	60GB	60GB	60GB	60GB	60GB
Graphic	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)	RADEON9200(32MB)
MEMORY1	512MB × 1	512MB × 1	512MB × 1	512MB × 1	512MB × 1	512MB × 1
QUANTITY [MAX]	2GB	2GB	2GB	2GB	2GB	2GB
OPT-DRIVE	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM
internal W-LAN	○	○	○	○	○	None
AC adaptor	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6
Battery	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V	PCGA-BP2V
OS	WinXP Pro	WinXP Pro	WinXP Pro	WinXP Pro	WinXP Pro	WinXP Pro
	△3 [MA]	△2 [MA]	△2 [MA]	△4 [MA]	△4 [MA]	△5 [MA]

- The trademarks of registered trademarks of above table, refer to page 2.
- The model that is accompanied by asterisk (∗) is CTO model.
  The parts to component for CTO models, reter to CTO Information.
- 本表中の商標・登録商標については，2ページをご参照ください。
- 機種名に（∗）がつくものはCTOモデルです。
  組み合わせについてはCTO Informationをご確認ください。

PCG-V505G/V505T4/V505VZ (J)
PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
PCG-V505DP (EU)
PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)

1-1

1-2. CTO Information

Model name:PCG-V505T4 (Japanese Area)
Model number:PCG-6B1N
OS:Windows XP Home
Ver.1.1

CPU	P-M 1.8GHz RH80536GC0332M 6-600-306-01	P-M 1.5GHz RH80535GC0211MSL6F9 6-600-304-01		
HDD	80 GB ASSY HDD 80GB (H,40) (S) A-8117-058-A	60 GB ASSY HDD 60GB (H,40) (S) A-8117-585-A	40GB ASSY HDD 40GB (H,40) (S) A-8117-059-A	
LCD	12.1 XGA LCD UNIT (12.1 TFT XGA) (S) A-8118-175-A			
Memory	2GB(1GBx2) EBD11UD8ABDA-6B 6-705-343-01	1GB(512MBx2) COMPLETE PWB MM-10A A-8068-348-A	512MB(512MBx1) COMPLETE PWB MM-10A A-8068-348-A	256MB(256MBx1) M470L3224FT0-CB3 6-705-094-01
Opt.Drive	DVD-RW 9.5 DVDRW (UJ-812, 9.5MM) 1-796-892-12	9.5mm Combo (×8) COMBO DRIVE (UJDA755, 9.5MM) 1-796-822-11		
W-Lan	MiniPCI CARD, WIRELESS LAN 1-761-784-11			
Battery	BP2V BP2V (J) ASSY (S) A-8114-136-A			
Office	Office Parsonal 2003	None		
Adobe	Adobe LE	None		
LABEL ID	V505T4 LABEL (ID(J)) 4-680-777-11			
BEZEL (OP)	DVD-RW BEZEL (OP) (M) (RW) ASSY X-4626-549-1	Combo BEZEL (OP) (M) ASSY X-4625-590-3		
SPACER,BEZEL (OP)	DVD-RW SPACER,BEZEL (OP) 2-021-077-01	None		

Model name:PCG-V505T4/P (Japanese Area)
Model number:PCG-6B1N
OS:Windows XP Pro
Ver.1.1

CPU	P-M 1.8GHz RH80536GC0332M 6-600-306-01	P-M 1.5GHz RH80535GC0211MSL6F9 6-600-304-01		
HDD	80 GB ASSY HDD 80GB (H,40) (S) A-8117-058-A	60 GB ASSY HDD 60GB (H,40) (S) A-8117-585-A	40GB ASSY HDD 40GB (H,40) (S) A-8117-059-A	
LCD	12.1 XGA LCD UNIT (12.1 TFT XGA) (S) A-8118-175-A			
Memory	2GB(1GBx2) EBD11UD8ABDA-6B 6-705-343-01	1GB(512MBx2) COMPLETE PWB MM-10A A-8068-348-A	512MB(512MBx1) COMPLETE PWB MM-10A A-8068-348-A	256MB(256MBx1) M470L3224FT0-CB3 6-705-094-01
Opt.Drive	DVD-RW 9.5 DVDRW (UJ-812, 9.5MM) 1-796-892-12	9.5mm Combo (×8) COMBO DRIVE (UJDA755, 9.5MM) 1-796-822-11		
W-Lan	MiniPCI CARD, WIRELESS LAN 1-761-784-11			
Battery	BP2V BP2V (J) ASSY (S) A-8114-136-A			
Office	Office Parsonal 2003	None		
Adobe	Adobe LE	None		
LABEL ID	V505T4/P LABEL (ID(J)) 4-680-777-01			
BEZEL (OP)	DVD-RW BEZEL (OP) (M) (RW) ASSY X-4626-549-1	Combo BEZEL (OP) (M) ASSY X-4625-590-3		
SPACER,BEZEL (OP)	DVD-RW SPACER,BEZEL (OP) 2-021-077-01	None		

Confidential

PCG-V505G/V505T4/V505VZ (J)
PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
PCG-V505DP (EU)
PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)

Category	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6
CPU	P-M1.8GHz / RH80536GC0332M / 6-600-306-01	P-M 1.7GHz / RH80535GC0291MSL6N5 / 6-600-301-01	P-M 1.5GHz / RH80535GC0211MSL6F9 / 6-600-304-01	P-M 1.4GHz / RH80535GC0171MSL6F8 / 6-600-303-01	Cel 1.2GHz / RH80535NC009512SL79S / 6-600-338-01	
HDD	80 GB / ASSY HDD 80GB (H, 40) (S) / A-8117-058-A	60 GB / ASSY HDD 60GB (H,40) (S) / A-8117-585-A	40GB / ASSY HDD 40GB (H, 40) (S) / A-8117-059-A			
LCD	12.1 XGA / LCD UNIT (12.1 TFT XGA) (S) / A-8118-175-A					
Memory	2GB (1GBx2) / EBD11UD8ABDA-6B / 6-705-343-01	1GB (1GBx1) / EBD11UD8ABDA-6B / 6-705-343-01	1GB (512MBx2) / COMPLETE PWB MM-10A / A-8068-348-A	512 MB (512MBx1) / COMPLETE PWB MM-10A / A-8068-348-A	512 MB (256MBx2) / M470L3224FT0-CB3 / 6-705-094-01	256MB(256MBx1) / M470L3224FT0-CB3 / 6-705-094-01
Opt.Drive	DVD-RW 9.5 / DVDRW (UJ-812, 9.5MM) / 1-796-892-12	9.5mm Combo (×8) / COMBO DRIVE (UJDA755, 9.5MM) / 1-796-822-11				
W-Lan	MiniPCI / WIRELESS LAN CARD / 1-761-864-11	None				
Battery	BP2V / BP2V (U) ASSY (S) / A-8114-137-A	BP4V / BP4V (U) ASSY (S) / A-8114-139-A				
Office	Office Parsonal 2003	None				
LABEL ID	V505EC / ID (LABEL) (U) / 4-681-844-41					
BEZEL (OP)	DVD-RW / BEZEL (OP) (M) (RW) ASSY / X-4626-549-1	Combo / BEZEL (OP) (M) ASSY / X-4625-590-3				
COVER, LENS	W-LAN model / (W-LAN)...COVER, LENS / 4-670-554-12	No W-LAN model / (No W-LAN)...COVER, LENS / 4-670-554-02				
ESCUTCHEON (F)	W-LAN model / (W-LAN)...ESCUTCHEON (F) (W-LAN) (UL) ASSY / X-4626-274-1	No W-LAN model / (No W-LAN)...ESCUTCHEON (F) (W-LESS) (UL) ASSY / X-4626-273-1				
FERRITE CORE	W-LAN model / (W-LAN)...FERRITE CORE / 1-400-255-11	None				
COPPER TAPE FAN	W-LAN model / (W-LAN)...COPPER TAPE FAN / 4-673-292-01	None				
COVER FERRITE CORE	W-LAN model / (W-LAN)...COVER FERRITE CORE / 4-673-025-01	None				
ANTENNA, FILM (FOR LEFT)	W-LAN model / (W-LAN)...ANTENNA, FILM (FOR LEFT) / 1-754-272-12	None				
ANTENNA, FILM (FOR RIGHT)	W-LAN model / (W-LAN)...ANTENNA, FILM (FOR RIGHT) / 1-754-272-22	None				
CUSHION (ANT)	W-LAN model / (W-LAN)...CUSHION (ANT) / 4-670-485-01	None				
FILAMENT TAPE	W-LAN model / (W-LAN)...FILAMENT TAPE (W12X50)	None				

Category	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6
CPU	P-M1.8GHz / RH80536GC0332M / 6-600-306-01	P-M 1.7GHz / RH80535GC0291MSL6N5 / 6-600-301-01	P-M 1.5GHz / RH80535GC0211MSL6F9 / 6-600-304-01	P-M 1.4GHz / RH80535GC0171MSL6F8 / 6-600-303-01	Cel 1.2GHz / RH80535NC009512SL79S / 6-600-338-01	
HDD	80 GB / ASSY HDD 80GB (H, 40) (S) / A-8117-058-A	60 GB / ASSY HDD 60GB (H,40) (S) / A-8117-585-A	40GB / ASSY HDD 40GB (H, 40) (S) / A-8117-059-A			
LCD	12.1 XGA / LCD UNIT (12.1 TFT XGA) (S) / A-8118-175-A					
Memory	2GB (1GBx2) / EBD11UD8ABDA-6B / 6-705-343-01	1GB (1GBx1) / EBD11UD8ABDA-6B / 6-705-343-01	1GB (512MBx2) / COMPLETE PWB MM-10A / A-8068-348-A	512 MB (512MBx1) / COMPLETE PWB MM-10A / A-8068-348-A	512 MB (256MBx2) / M470L3224FT0-CB3 / 6-705-094-01	256MB(256MBx1) / M470L3224FT0-CB3 / 6-705-094-01
Opt.Drive	DVD-RW 9.5 / DVDRW (UJ-812, 9.5MM) / 1-796-892-12	9.5mm Combo (×8) / COMBO DRIVE (UJDA755, 9.5MM) / 1-796-822-11				
W-Lan	MiniPCI / WIRELESS LAN CARD / 1-761-864-11	None				
Battery	BP2V / BP2V (U) ASSY (S) / A-8114-137-A	BP4V / BP4V (U) ASSY (S) / A-8114-139-A				
Office	Office Parsonal 2003	None				
LABEL ID	V505ECP / ID (LABEL) (U) / 4-681-844-31					
BEZEL (OP)	DVD-RW / BEZEL (OP) (M) (RW) ASSY / X-4626-549-1	Combo / BEZEL (OP) (M) ASSY / X-4625-590-3				
COVER, LENS	W-LAN model / (W-LAN)...COVER, LENS / 4-670-554-12	No W-LAN model / (No W-LAN)...COVER, LENS / 4-670-554-02				
ESCUTCHEON (F)	W-LAN model / (W-LAN)...ESCUTCHEON (F) (W-LAN) (UL) ASSY / X-4626-274-1	No W-LAN model / (No W-LAN)...ESCUTCHEON (F) (W-LESS) (UL) ASSY / X-4626-273-1				
FERRITE CORE	W-LAN model / (W-LAN)...FERRITE CORE / 1-400-255-11	None				
COPPER TAPE FAN	W-LAN model / (W-LAN)...COPPER TAPE FAN / 4-673-292-01	None				
COVER FERRITE CORE	W-LAN model / (W-LAN)...COVER FERRITE CORE / 4-673-025-01	None				
ANTENNA, FILM (FOR LEFT)	W-LAN model / (W-LAN)...ANTENNA, FILM (FOR LEFT) / 1-754-272-12	None				
ANTENNA, FILM (FOR RIGHT)	W-LAN model / (W-LAN)...ANTENNA, FILM (FOR RIGHT) / 1-754-272-22	None				
CUSHION (ANT)	W-LAN model / (W-LAN)...CUSHION (ANT) / 4-670-485-01	None				
FILAMENT TAPE	W-LAN model / (W-LAN)...FILAMENT TAPE (W12X50)	None				

Confidential

MBX-100

Intel® Pentium® M Processor 478 mFCPGA

ATF0 LM86

(socket)

Clock Gen.

400 MHz PSB

LCD 12" XGA

VGA

Battery

DC Jack (16 V)

CNX-201

CNX-206

DC Jack (16 V)

DC/DC

USB

USB

SO-DIMM

SO-DIMM

333 MHz DDR SDRAM

Intel® 855PM MCH 593 mFCBGA (ODEM)

AGP 4X (264 MHz)

VIF-33

LVDS

Graphics ATI M9+

TMDS

port1

USB 2.0 Hub

RJ-45

Thermal Sensor LM26

Thermal Sensor LM26

HUB Interface 66 MHz

EEPROM (MAC address)

Ether Kinnereth

RJ-45

Port 5

port3

USB-Parallel

Parallel

LPC (33 MHz)

Intel® 82801DBM 421 BGA (ICH4-M)

USB

PCI Bus (33 MHz)

Port 4

IFX-290

Memory Stick SUMIRE 3

MS

Port 2

USB (right)

Debug

EC/K BC

FWH

W-LAN

i.LINK & PC Card

Port 0

CNX-227

USB (left)

USB

EEPROM (password)

IDE (Ultra ATA100)

(Mini PCI Type 3B socket)

EEPROM (GUID)

PC Card (Type II x 1)

i.LINK

VGA

Internal Keyboard

TouchPad

HDD

Opt. Drive

ATF1 LM75

AC'97 Bus

MDC Modem

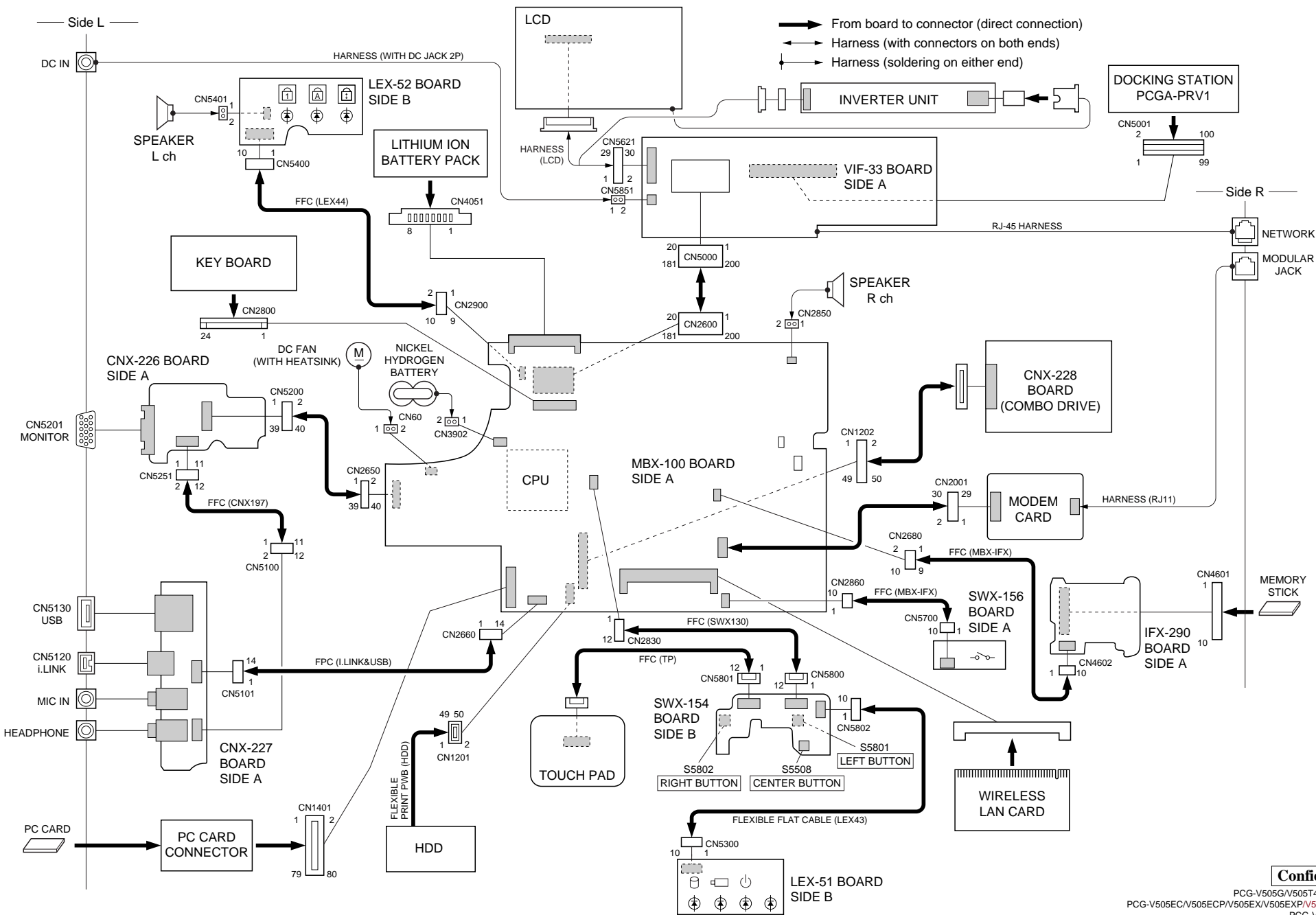Audio CODEC

CNX-226

Headphone

Microphone

DVI-D

RJ-11

PCGA-PRV1

PCG-V505G/V505T4/V505VZ (J)
PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
PCG-V505DP (EU)
PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)

Side L

DC IN

HARNESS (WITH DC JACK 2P)

LCD

From board to connector (direct connection)

Harness (with connectors on both ends)

Harness (soldering on either end)

DOCKING STATION
PCGA-PRV1

CN5401

LEX-52 BOARD
SIDE B

INVERTER UNIT

CN5001
2   100
1   99

SPEAKER
L ch

CN5400
10   1

LITHIUM ION
BATTERY PACK

HARNESS
(LCD)

CN5621
29   30
1   2

VIF-33 BOARD
SIDE A

Side R

FFC (LEX44)

CN4051
8   1

CN5851
1 2

RJ-45 HARNESS

NETWORK

KEY BOARD

CN2900
2   1
10   9

CN5000
20   1
181   200

SPEAKER
R ch

MODULAR
JACK

CN2800
24   1

DC FAN
(WITH HEATSINK)

NICKEL
HYDROGEN
BATTERY

CN2850
2   1

CN2600
20   1
181   200

CNX-226 BOARD
SIDE A

CN5200
1   2
39   40

CNX-228
BOARD
(COMBO DRIVE)

CN5201
MONITOR

CN60
1   2

2   1
CN3902

CN1202
1   2
49   50

CN2001
30   29
2   1

MODEM
CARD

HARNESS (RJ11)

CN5251
1   11
2   12

CN2650
1   2
39   40

MBX-100 BOARD
SIDE A

CPU

FFC (CNX197)

CN2680
2   1
10   9

FFC (MBX-IFX)

CN5100
1   11
2   12

CN2860
10   1

FFC (MBX-IFX)

SWX-156
BOARD
SIDE A

CN4601
1

MEMORY
STICK

CN5130
USB

CN2660
1   14

CN5700
10   1

IFX-290
BOARD
SIDE A

CN5120
i.LINK

CN5101
14   1

FPC (I.LINK&USB)

FFC (SWX130)

CN2830
1   12

CN4602
1   10

MIC IN

FFC (TP)

CN5801
12   1

CN5800
12   1

CN5802
10   1

HEADPHONE

CNX-227
BOARD
SIDE A

TOUCH PAD

SWX-154
BOARD
SIDE B

S5801
LEFT BUTTON

WIRELESS
LAN CARD

CN1201
49   50
1   2

S5802
RIGHT BUTTON

S5508
CENTER BUTTON

FLEXIBLE
PRINT PWB (HDD)

HDD

PC CARD

PC CARD
CONNECTOR

CN1401
1   2
79   80

FLEXIBLE FLAT CABLE (LEX43)

CN5300
10   1

LEX-51 BOARD
SIDE B

CHAPTER 4.
EXPLODED VIEWS AND PARTS LIST

- The parts list is compiled by blocks of a palmrest and bottom etc.The sections of the parts list are different depending on the model.Please refer to list of contents shown in the below.

- 分解図と部品表は，パームレスト，ボトムなどのブロックごとに分かれています。機種によって部品表のセクションが異なりますので，詳細は右下の一覧表を参照してください。

Palmrest

LCD

Main Board

Bottom
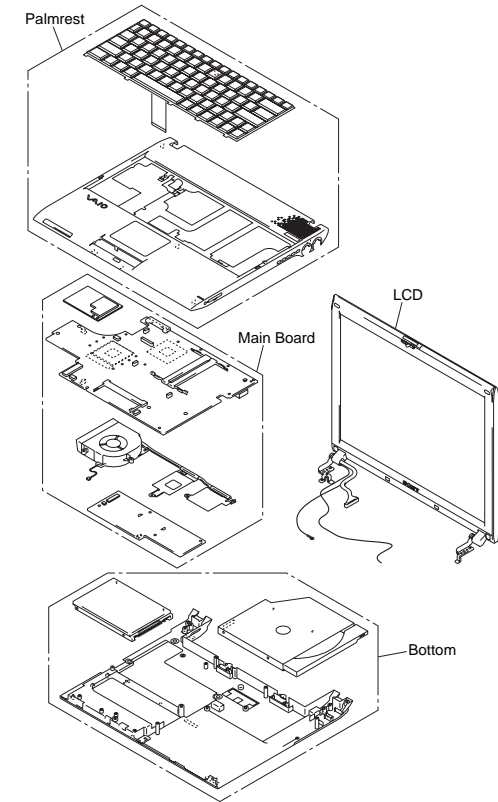
NOTE:
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should beanticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- When two or more parts are shown, use the part described first as the main part.
- The parts marked " $ " are the High Value Modules (HVM).
- The parts marked " # " are the parts on which barcode label is attached. For the barcode label, refer to CHAPTER 5.
- The parts marked " & " are the "Customer Replacable Parts (CRP)" that can be replaced by Field Customer Support.
Especially the parts with the <&> mark require the special attention to use them. Here fore, check first whether the desired part is one of the targetted parts of the Customer Replaceable Parts (CRP), or the non-targetted parts by referring to the exploded view.
- The model that is accompanied by asterisk (∗) is CTO model.
The parts to component for CTO models, reter to CTO Information.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

【使用上の注意】
- ＊印の部品は常備在庫しておりません。
- 図面番号のない部品は供給しません。
- 併記部品の場合，上部記載部品をメイン部品として使用してください。
- 部品名称の前に＄印のついた部品は，High Value Module（HVM）です。
- 商品名称の前に＃印のついた部品は，バーコードラベル貼付部品です。
  バーコードラベルについてはCHAPTER 5を参照してください。
- 部品名称の前に＆印のついた部品は，お客様窓口などでも交換可能なCustomer Replacable Part（CRP）です。
  特に<&>のついた部品は，使い分けが必要な部品ですので，分解図でCustomer Replacable Parts 対象部品か，対象外部品かを必ず御確認ください。
- 機種名に（∗）がつくものはCTOモデルです。
  組み合わせについてはCTO Informationをご確認ください。

⚠印の部品，または⚠印付きの点線で囲まれた部品は，安全性を維持するために重要な部品です。従って交換時は，必ず指定の部品を使用して下さい。

|			Palmrest	Main Board	Bottom	LCD	Accessory
		V505G/B	P-1	M-1	B-1	L-1	A-1
	J	V505VZ/P	P-1	M-1	B-1	L-1	A-1
		V505T4∗	P-1	M-1	B-1	L-1	A-1
		V505T4/P∗	P-1	M-1	B-1	L-1	A-1
⚠3 [MA]		V505EX	P-1	M-1	B-1	L-1	A-1
⚠3 [MA]		V505EXP	P-1	M-1	B-1	L-1	A-1
⚠3 [MA]	AM	V505EC∗	P-1	M-1	B-1	L-1	A-1
⚠3 [MA]		V505ECP∗	P-1	M-1	B-1	L-1	A-1
⚠5 [MA]		V505NFP	P-1	M-1	B-1	L-1	A-1
⚠3 [MA]	EU	V505DP	P-1	M-1	B-1	L-1	A-1
⚠2 [MA]		V505MNP	P-1	M-1	B-1	L-1	A-1
⚠2 [MA]		V505MNSP	P-1	M-1	B-1	L-1	A-1
⚠4 [MA]	AO	V505NTP	P-1	M-1	B-1	L-1	A-1
⚠4 [MA]		V505MNCP	P-1	M-1	B-1	L-1	A-1
⚠5 [MA]		V505MNJP	P-1	M-1	B-1	L-1	A-1

∗: CTO Model

Confidential

PCG-V505G/V505T4/V505VZ (J)
PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
PCG-V505DP (EU)
PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)

P-1. Palmrest
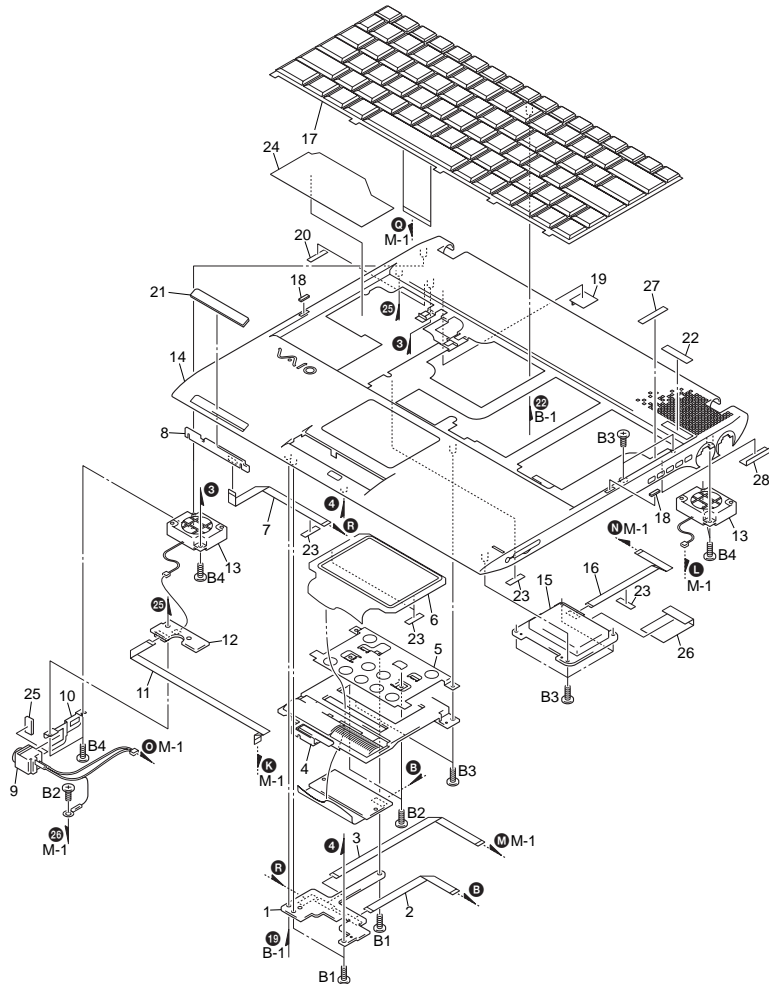
Ref. No.	Part No.		Description
1	A-8068-746-A	$	COMPLETE PWB (SWX-154) (BB2) (S)
2	1-824-996-71		CABLE, FLEXIBLE FLAT (TP)
3	1-824-996-52		CABLE, FLEXIBLE FLAT (SWX130)
4	X-4626-275-1		HOLDER (TP) (C) ASSY
* 5	4-670-552-02		PLATE (TP)
6	1-796-623-14		TOUCH PAD
7	1-824-996-22		CABLE, FLEXIBLE FLAT (LEX43)
8	A-8068-744-A	$	COMPLETE PWB (LEX-51) (BB2) (S)
9	1-962-179-12		HARNESS (WITH DC JACK 2P)
* 10	4-670-547-01		BRACKET (KENSINGTON)
11	1-824-996-32		CABLE, FLEXIBLE FLAT (LEX44)
12	A-8068-745-A	$	COMPLETE PWB (LEX-52) (BB2) (S)
13	1-477-748-11		LOUD SPEAKER (2.0CM, WITH BOX)
14	X-4625-593-7		PALMREST (F1) ASSY
15	A-8068-747-A	$	COMPLETE PWB (IFX-290) (BB2) (S)
16	1-860-586-11		PWB, FLEXIBLE PRINT (MBX-IFX)
18	4-670-846-01		CUSHION (PALM)
19	4-671-180-01		COVER (LENS KB)
20	4-672-928-01		CUSHION (LIGHT SHIELDING)
23	4-673-761-01		TAPE 7X18
24	4-675-709-01		PLATE KB
25	4-678-053-02		CUSHION (DC)
26	4-679-438-01		SHEET (M)
27	4-679-387-01		TAPE (5X35)
28	4-678-054-01		SHEET (VENT)
B1	4-672-836-11		SCREW, M2 SPECIAL HEAD, EG GRIP (M2X4)
B2	4-672-834-01		SCREW, +B EG GRIP (M2X2.5)
B3	4-672-834-31		SCREW, +B EG GRIP (M2X5.0)
B4	4-672-840-01		SCREW, M2 TAPPING, FLAT HEAD (M2X5.0)

									J				AM				EU		AO				
Ref. No.	Part No.	Description	V505G/B	V505VZ/P	V505T4+	V505T4P+	V505EXP	V505EX	V505EC+	V505ECP+	V505NFP	V505DP	V505MNP	V505MNSP	V505NTP	V505MNCP	V505MNJP
17	1-477-752-12	KEY BOARD UNIT (JP)	●	●	●	●											
⚠ [MA]	1-477-752-22	KEY BOARD UNIT (US)					●	●	●	●		●			●		●
⚠ [MA]	1-477-752-32	KEY BOARD UNIT (US)									●						
⚠ [MA]	1-477-752-32	(UK)...KEY BOARD UNIT (GB)											●				
⚠ [MA]	1-477-752-72	(Italian)...KEY BOARD UNIT (IT)											●				
⚠ [MA]	1-477-891-12	(Spanish)...KEY BOARD UNIT (ES)											●				
⚠ [MA]	1-477-891-41	(Swedish)...KEY BOARD UNIT (SE)											●				
⚠ [MA]	1-477-891-22	KEY BOARD UNIT (TH)													●		
⚠ [MA]	1-477-891-32	KEY BOARD UNIT (TW)												●			
21	4-670-556-12	(W-LAN)...COVER, LENS	●	●	●	●	●	●	●		●		●	●	●	●	
⚠ [MA]	4-670-554-02	(No W-LAN)...COVER, LENS								●		●					●
22	4-680-777-01	LABEL (ID (J))			●												
	4-680-777-11	LABEL (ID (J))				●											
	4-680-777-21	LABEL (ID (J))	●	●													
	4-680-777-31	LABEL (ID (J))		●													
⚠ [MA]	4-681-844-01	ID (LABEL) (U)					●										
⚠ [MA]	4-681-844-11	ID (LABEL) (U)						●									
⚠ [MA]	4-681-844-41	ID (LABEL) (U)							●								
⚠ [MA]	4-681-844-31	ID (LABEL) (U)								●							
⚠ [MA]	4-681-844-21	ID (LABEL) (U)									●						
⚠ [MA]	4-682-105-01	LABEL ID (E)										●					
⚠ [MA]	4-680-791-02	LABEL ID (I)											●				
⚠ [MA]	4-680-791-22	LABEL ID (I)												●			
⚠ [MA]	4-680-791-11	LABEL ID (I)													●		
⚠ [MA]	4-680-787-02	LABEL ID (C)														●	
⚠ [MA]	4-680-787-11	LABEL ID (C)															●

- This parts list contains two different types of parts.
  The first type is the parts that are common to all models.
  The other type is the parts that are different depending on each model.

- この部品表は，機種共通の部品と，機種によって使い分けが必要な部品に分かれています。

M-1.Main Board
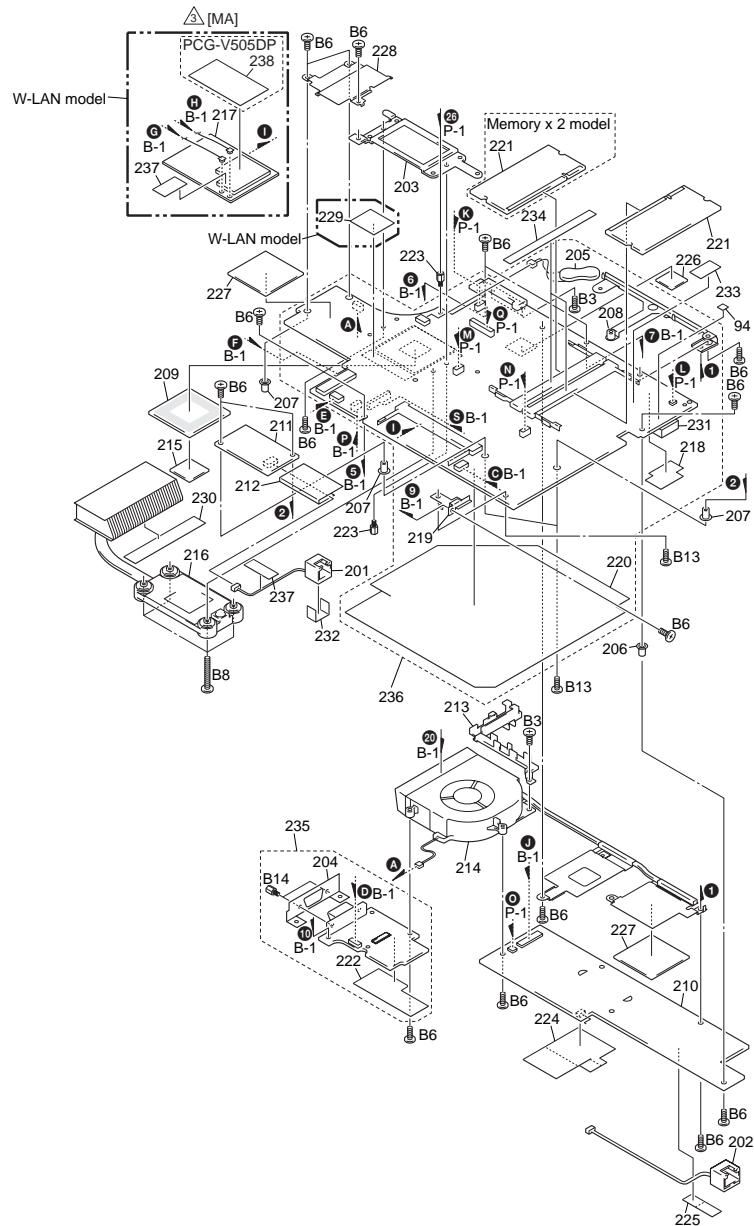
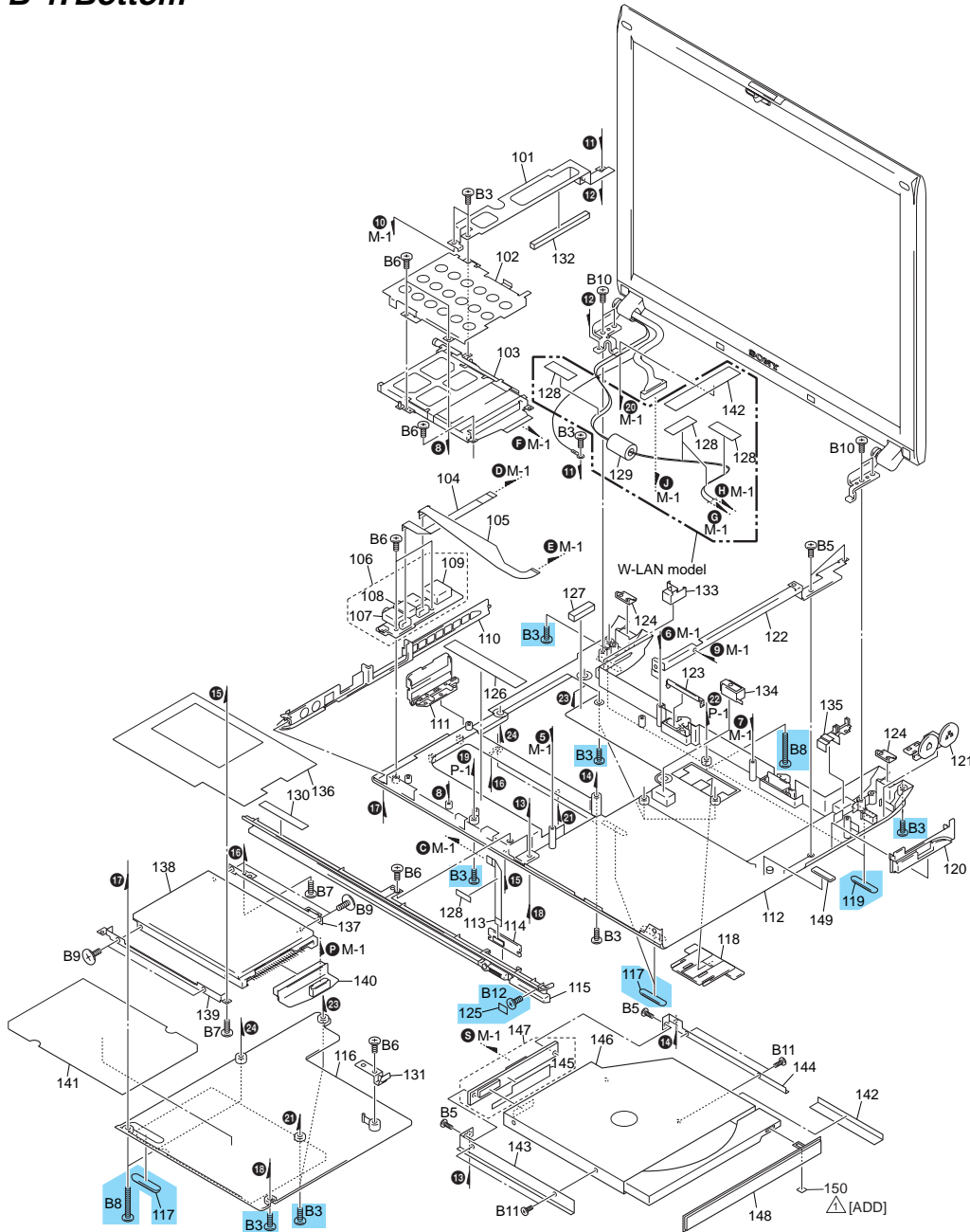| Ref. No.	Part No.	Description
201	1-962-036-11	HARNESS (RJ11)
202	1-962-095-11	HARNESS,RJ-45
* 203	4-670-532-02	BRACKET (CPU)
* 204	4-670-563-01	BRACKET (VGA)
205	1-756-038-21	BATTERY, NICKEL HYDROGEN
206	4-670-168-01	STAND OFF M2X6
207	4-655-326-01	OFF, STAND
* 208	X-4625-591-2	BRACKET (MBX) ASSY
210	A-8068-741-A $ #	COMPLETE PWB (VIF-33) (BB2) (S)
211	1-761-606-14	CARD, MODEM
212	4-671-515-01	FILM (MODEM)
213	4-670-524-01	BRACKET WIRE
214	1-763-974-14	FAN, D.C
215	4-668-785-01	THERMAL SHEET CPU
216	4-670-509-02	HEAT SINK UNIT
218	4-679-974-01	SHEET (278VIF), INSULATING
* 219	4-670-534-02	BRACKET MBX FR
220	4-671-188-01	SHEET (MBX), INSULATING
222	4-671-184-01	SHEET (FAN), INSULATING
223	4-651-989-51	SPACER (MBX)
224	4-671-460-02	TAPE, ETHER CABLE
225	4-671-462-01	TAPE, ETHER CABLE 2 (9X34)
226	4-670-528-01	SHEET (MCH), THERMAL
227	4-670-529-01	SHEET (GFX), THERMAL
* 228	4-670-533-04	HEAT SINK (POWER)
229	4-673-025-01	(W-LAN)...COVER FERRITE CORE
230	4-673-026-01	FILM (FAN)
231	1-793-365-21	CONNECTOR, USB (A)
232	4-673-302-01	ADHESIVE TAPE (RJ)
233	4-673-762-01	CUSHION T4.5
234	4-673-758-01	SPACER T2 (DIM)
235	A-8068-614-A $	COMPLETE PWB (CNX-226) (BB) (S)
236	A-8068-612-A $ #	COMPLETE PWB (MBX-100) (BB) (S)
237	4-662-881-02	CUSHION, KEY BOARD
B3	4-672-834-31	SCREW, +B EG GRIP (M2X5.0)
B6	4-672-834-21	SCREW, +B EG GRIP (M2X3.5)
B13	4-672-836-01	SCREW, M2 SPECIAL HEAD, EG GRIP (M2X3)
B14	4-635-966-01	SCREW (HEX)

				J						AM			EU		AO			
	Ref. No.	Part No.	Description	V505G/B	V505VZ/P	V505T4+	V505T4/P+	V505EXP	V505EX	V505EC+	V505ECP+	V505NFP	V505DP	V505MNP	V505MNSP	V505NTP	V505MNCP	V505MNJP
⚠[MA]	209	6-600-338-01	(M-Cel-1.2GHz)...IC RH80535NC009512SL79S							●	●							
⚠[MA]		6-600-303-01	(PM-1.4GHz)...IC RH80535GC0171MSL6F8							●	●							
		6-600-304-01	(PM-1.5GHz)...IC RH80535GC0211MSL6F9	●	●	●	●	●	●	●	●	●						
⚠[MA]		6-600-302-01	(PM-1.6GHz)...IC RH80535GC0251MSL6FA										●	●	●	●	●	●
⚠[MA]		6-600-301-01	(PM-1.7GHz)...IC RH80535GC0291MSL6N5							●	●							
		6-600-306-01	(PM-1.8GHz)...IC RH80536GC0332M				●	●					●	●	●			
	217	1-761-660-23	CARD, WIRELESS LAN (CLX11B 14CH)	●	●	●	●											
		1-761-784-11	CARD, WIRELESS LAN			●	●											
⚠[MA]		1-761-864-11	WIRELESS LAN CARD					●	●	●	●	●						
⚠[MA]		1-761-864-31	WIRELESS LAN CARD										●					
⚠[MA]		1-761-660-13	CARD, WIRELESS LAN (CLX11B 11CH)														●	
	221	6-705-094-01	(256MB)...IC M470L3224FTO-CB3	●	●	●	●	●	●	●	●							
		A-8068-348-A	(512MB)...COMPLETE PWB MM-10A			●	●						●	●	●	●	●	●
		6-705-343-01	(1024MB)...IC EBD11UD8ABDA-6B			●	●			●	●							
⚠[MA]	238	4-683-023-01	SHEET (2850), SHIELD										●					
				⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]

- This parts list contains two different types of parts.
  The first type is the parts that are common to all models.
  The other type is the parts that are different depending on each model.

- この部品表は，機種共通の部品と，機種によって使い分けが必要な部品に分かれています。

- When change the CPU (ref. 209), refer to "Replacing the CPU" in CHAPTER 5.

- CPU（Ref. 209）を交換する際には，CHAPTER 5の「Replacing the CPU」をご参照下さい。

B-1. Bottom

Ref. No.	Part No.		Description
* 101	4-670-521-02		BRACKET (BOTTOM L)
* 102	4-670-517-03		BRACKET (PC CARD)
103	1-817-276-14		CONNECTOR, PC CARD
104	1-824-996-61		CABLE, FLEXIBLE FLAT (CNX197)
105	1-687-953-11		FPC (I.LINK & USB)
106	A-8068-742-A	$	COMPLETE PWB (CNX-227) (BB2) (S)
107	1-694-760-21		JACK, SMALL TYPE (HEADPHONE)
108	1-694-760-41		JACK, SMALL TYPE (MICROPHONE)
109	1-794-548-21		CONNECTOR, USB (A)
110	4-678-049-02		ESCUTCHEON (SIDE L) (UL)
111	X-4625-584-4		DOOR (VGA) ASSY
112	X-4625-583-4		HOUSING (BOTTOM) (F1) ASSY
113	1-824-996-41		CABLE, FLEXIBLE FLAT (SWX129)
114	A-8068-606-A	$	COMPLETE PWB (SWX-156) (BB) (S)
116	4-670-526-04		COVER (BOTTOM)
117	4-635-946-41	&	FOOT
118	4-670-523-02		DOOR DOCK
119	4-673-102-01	&	FOOT (R)
120	4-670-519-03		ESCUTCHEON (SIDE R)
121	X-4625-585-3		DOOR (RJ) ASSY
* 122	4-670-522-01		PLATE (OP) (T)
123	4-670-525-01		COVER (BATTERY LOCK)
124	4-670-796-02		STOPPER HINGE
125	4-671-336-03	&	COVER SEAL 6X4
126	4-671-463-02		TAPE, FPC CABLE (60X10)
127	4-671-506-01		GASKET (FAN)
128	4-662-881-02		CUSHION, KEY BOARD
129	1-400-255-11		(W-LAN)...FERRITE CORE
130	4-673-009-02		SHADE CLOTH (A)
131	4-672-759-01		HOOK (COVER BOTTOM)
132	4-680-578-01		GASKET 5X3
133	4-678-050-01		COVER (L)
134	4-678-052-02		COVER (C)
135	4-678-051-01		COVER (R)
136	4-671-028-01		SHEET (HDD) (T), INSULATING
* 137	4-670-511-01		BRACKET (HDD) (R)
* 139	4-670-510-01		BRACKET (HDD) (F)
140	1-687-015-11		PWB, FLEXIBLE PRINT (HDD)
141	4-671-027-01		SHEET (HDD) (B), INSULATING
142	4-673-292-01		COPPER TAPE FAN
* 143	4-670-503-02		BRACKET (OP) (F)
* 144	4-670-504-02		BRACKET (OP) (R)
145	4-671-026-01		SHEET (OP), INSULATING
147	A-8068-743-A	$	COMPLETE PWB (CNX-228) (BB2) (S)
149	4-680-812-01		CUSHION (OPT)
B3	4-672-834-31	<&>	SCREW, +B EG GRIP (M2X5.0)
B5	4-672-834-11		SCREW, +B EG GRIP (M2X3.0)
B6	4-672-834-21		SCREW, +B EG GRIP (M2X3.5)
B7	4-672-834-51		SCREW, +B EG GRIP (M2X4)
B8	4-672-834-41	<&>	SCREW, +B EG GRIP (M2X13)
B9	4-672-839-01		HEAD, M3 FLAT (M3X4)
B10	4-672-835-01		SCREW, M2.6 +B EG GRIP (M2.6X5)
B11	4-671-538-01		SCREW (M2X2), SPECIAL HEAD
B12	4-671-539-01	&	M2 +P EG GRIP (M2X4)

	Ref. No.	Part No.		Description	V505G/B	V505VZ/P	V505T4+	V505T4+P-	V505EXP	V505EX	V505EC+	V505ECP+	V505NFP	V505DP	V505MNP	V505MNSP	V505NTP	V505MNCP	V505MNJP
[MA]	115	X-4626-274-1		(W-LAN)...ESCUTCHEON (F) (W-LAN) (UL) ASSY	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		X-4626-273-1		(No W-LAN)...ESCUTCHEON (F) (W-LESS) (UL) ASSY															●
[MA]	138	A-8117-059-A	$ #	ASSY HDD 40GB (H, 40) (S)	●	●	●	●											
		A-8117-585-A	$ #	ASSY HDD 60GB (H,40) (S)					●	●	●	●	●	●	●				
		A-8111-360-A	$ #	ASSY HDD 60GB (T, 30) (S)												●	●		
		A-8117-058-A	$ #	ASSY HDD 60GB (H, 40) (S)														●	●
	146	1-796-822-11		COMBO DRIVE (UJDA755, 9.5MM)	●	●	●	●	●	●	●	●							
		1-796-892-12	$ #	DVDRW (UJ-812, 9.5MM)									●	●	●	●	●	●	●
	148	X-4625-590-3		BEZEL (OP) (M) ASSY	●	●	●	●	●	●	●	●							
		X-4626-549-1		BEZEL (OP) (M) (RW) ASSY															
[ADD]	150	2-021-077-01		SPACER,BEZEL (OP)															

• This parts list contains two different types of parts.
 The first type is the parts that are common to all models.
 The other type is the parts that are different depending on each model.

• この部品表は，機種共通の部品と，機種によって使い分けが必要な部品に分かれています。

PCG-V505G/V505T4/V505VZ (J)
PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
PCG-V505DP (EU)
PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)

L-1. LCD 12.1-inch XGA
– Made by TO –
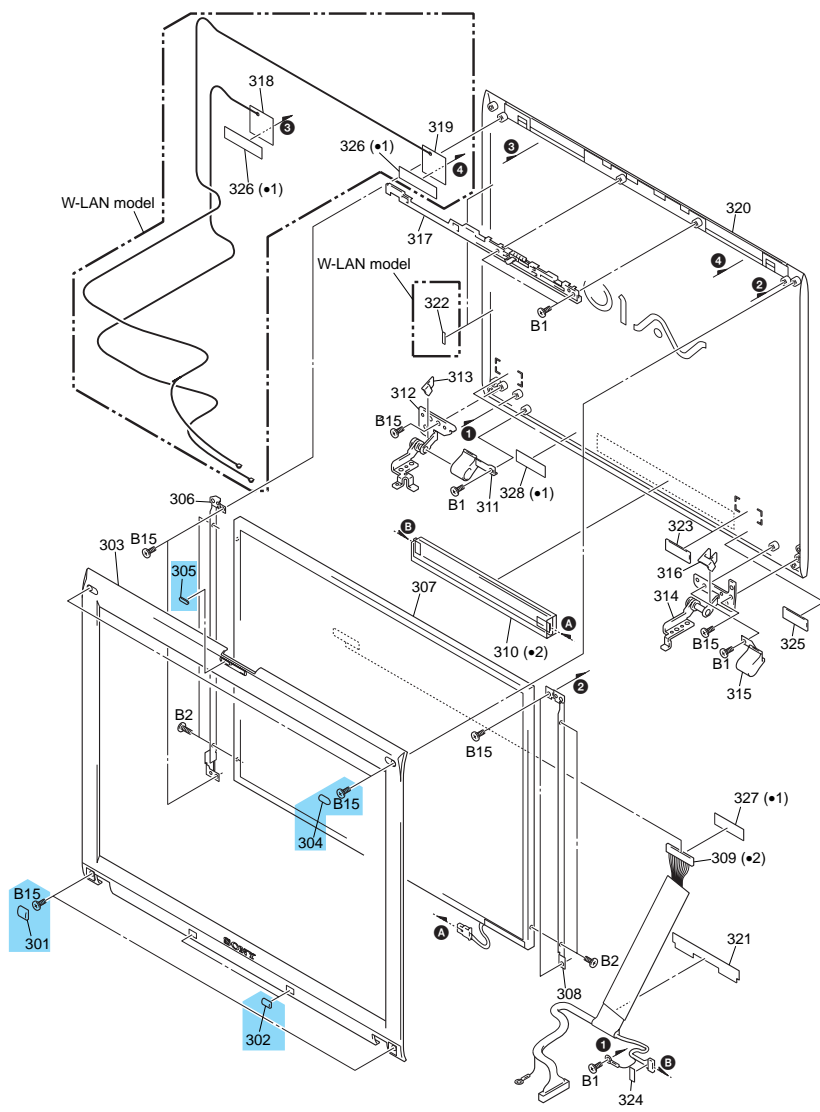
Ref. No.	Part No.			Description
301	4-670-474-01	&		CUSHION (L)
302	4-670-476-01	&		CUSHION (CENTER)
303	X-4625-579-5			HOUSING (BEZEL) ASSY
304	4-670-473-01	&		CUSHION (U)
305	4-670-475-01	&		CUSHION (LATCH)
* 306	4-670-481-02			BRACKET (LCD L)
307	A-8118-175-A	$	#	LCD UNIT (12.1 TFT XGA) (S)
* 308	4-670-482-02			BRACKET (LCD R)
309	1-961-998-31			HARNESS, LCD (*2)
310	1-478-283-11			INVERTER UNIT (*2)
311	4-670-477-02			COVER (L), HINGE
312	4-670-483-01			TILT UNIT (L)
313	4-670-479-01			CAP (L), HINGE
314	4-670-484-02			TILT UNIT (R)
315	4-670-478-02			COVER (R), HINGE
316	4-670-480-03			CAP (R), HINGE
317	X-4625-580-3			LATCH ASSY
318	1-754-272-12			(W-LAN)...ANTENA, FILM (FOR LEFT)
319	1-754-272-22			(W-LAN)...ANTENA, FILM (FOR RIGHT)
320	A-8117-843-A			HOUSING DISPLAY ASSY (BADGE) (S)
321	4-673-031-01			COPPER TAPE (LCD)
322	4-670-485-01			(W-LAN)...CUSHION (ANT)
323	4-673-032-01			CUSHION (GAP)
324	4-662-881-02			CUSHION, KEY BOARD
325	4-673-088-01			TAPE, HARNESS (INV)
326	-			(W-LAN)...FILAMENT TAPE (W12X50) (*1)
327	-			FILAMENT TAPE (W12X30) (*1)
328	-			FILAMENT TAPE (W12X40) (*1)
B1	4-672-836-11			SCREW, M2 SPECIAL HEAD, EG GRIP (M2X4)
B2	4-672-834-01			SCREW, +B EG GRIP (M2X2.5)
B15	4-671-538-11	<&>		SCREW (M2X4), SPECIAL HEAD

• 1 Use the FILAMENT TAPE.
• 2 When you exchange Ref. 309 or Ref. 310, please exchange both together.

• 1 Use the FILAMENT TAPE.
• 2 Ref. 309または310の部品を交換するときは，両方の部品を同時に交換してください。

PCG-V505G/V505T4/V505VZ (J)
PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
PCG-V505DP (EU)
PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)

4-5
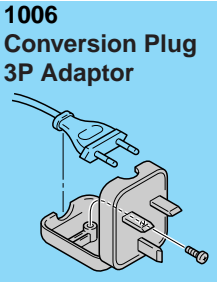
A-1. Accessories

1001
AC Adaptor

⚠3 [MA]
1006
Conversion Plug 3P Adaptor

1002
Battery Pack

⚠2 [MA]
1007
Power Cord
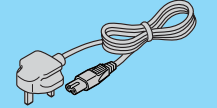
1003
Power Cord

⚠2 [MA]
1008
AC Power Cord

⚠3 [MA]
1004
Power Cord
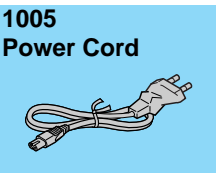
⚠4 [MA]
1009
Power Cord

⚠2 [MA]
1005
Power Cord

Ref. No.	Part No.			Description
⚠1001	1-477-749-51	$	&	ADAPTOR, AC

					J	J	J	J	AM	AM	AM	AM	AM	EU	AO	AO	AO	AO	AO
Ref. No.	Part No.			Description	V505G/B	V505VZP	V505T4+	V505T4/P+	V505EXP	V505EX	V505EC+	V505ECP+	V505NFP	V505DP	V505MNP	V505MNSP	V505NTP	V505MNCP	V505MNJP
1002	A-8114-136-A	$	&	BP2V (J) ASSY (S)	•	•	•	•											
[MA]	A-8114-137-A	$	&	BP2V (U) ASSY (S)					•	•	•	•	•						
[MA]	A-8114-139-A	$	&	BP4V (U) ASSY (S)							•	•							•
[MA]	1-756-328-22	$	&	BATTERY PACK, LITHIUM ION											•	•	•	•	•
1003	1-790-732-32		&	CORD, POWER	•	•	•	•											
[MA] 1004	1-757-562-21		&	CORD, POWER					•	•	•	•	•			•			
[MA] 1005	1-575-131-61		&	CORD, POWER										•			•		
[MA] 1006	1-770-019-11		&	ADAPTOR, CONVERSION PLUG 3P										•					
[MA] 1007	1-555-074-31		&	CORD, POWER											•				
[MA] 1008	1-823-935-51		&	CORD, AC POWER										•					
[MA] 1009	1-782-476-22		&	CORD, POWER														•	•
[MA] -	1-816-429-12		&	(UK)...PHONE, PLUG (GB)										•					
[MA] -	1-816-429-72		&	(Italian)...PHONE, PLUG (IT)										•					
-	4-682-323-01		&	MANUAL (XP), INSTRUCTION	•		•	•											
-	4-682-325-01		&	MANUAL (BPM), INSTRUCTION		•													
[MA] -	4-681-795-01		&	QUICK START					•	•	•	•							
[MA] -	4-681-796-01		&	QUICK START									•						
[MA] -	4-679-556-01		&	GETTING STARTED										•					
[MA] -	4-681-554-11		&	(UK,Swedish)...HW SPECS										•					
[MA] -	4-681-554-21		&	(German,Swiss)...HW SPECS										•					
[MA] -	4-681-554-31		&	(French,Swiss)...HW SPECS										•					
[MA] -	4-681-554-41		&	(Italian,Swiss)...HW SPECS										•					
[MA] -	4-681-554-51		&	(UK)...HW SPECS										•					
[MA] -	4-681-554-61		&	(Spanish)...HW SPECS										•					
[MA] -	4-680-143-11		&	MANUAL (XP), INSTRUCTION											•	•			
[MA] -	4-682-265-41		&	MANUAL (XP), INSTRUCTION													•		
[MA] -	4-680-144-31		&	MANUAL (XP), INSTRUCTION														•	•
[MA] -	4-682-266-11		&	INSTRUCTION (SPEC)											•	•			
[MA] -	4-682-267-31		&	INSTRUCTION (SPEC)													•		

- This parts list contains two different types of parts.
  The first type is the parts that are common to all models.
  The other type is the parts that are different depending on each model.

- この部品表は，機種共通の部品と，機種によって使い分けが必要な部品に分かれています。

PCG-V505G/V505T4/V505VZ (J)
PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
PCG-V505DP (EU)
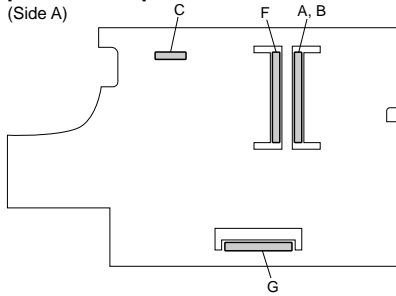PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)
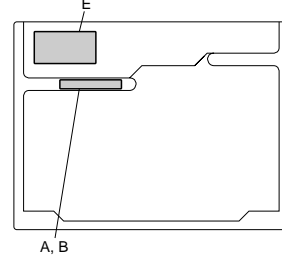
5-1. The Barcode Label

The hatched portion of the barcode is used as the repair data.
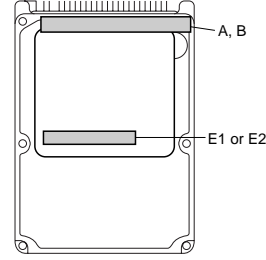
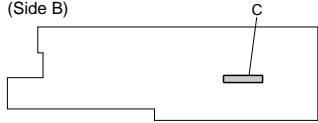バーコードラベルの網掛け部は，修理データとして使用いたします。

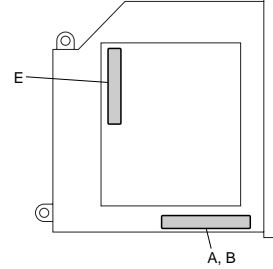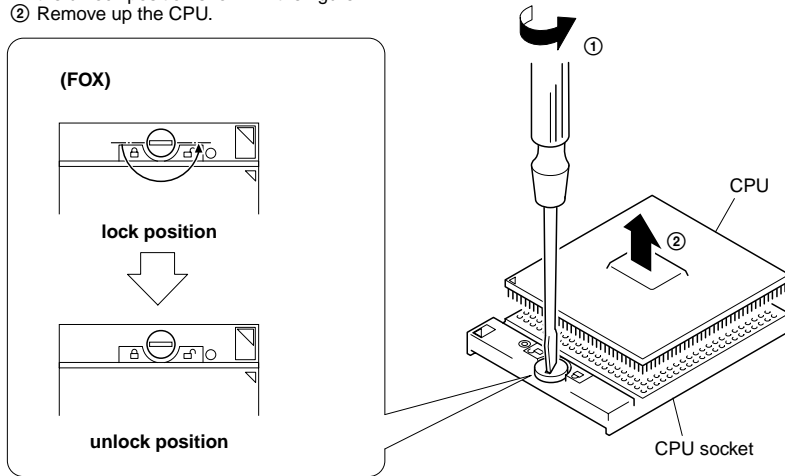[MBX-100 Board]
(Side A)

[LCD (12.1-inch XGA) (TO)]
(Rear)

[HDD] (Made by HI)
(Top)

[VIF-33 Board]
(Side B)

[COMBO DRIVE] (Made by Pa)
(Top)

A	: Part No.
B	: Serial No.
C	: Revision No.
D	: Product Code
E	: Maker Barcode
F	: Global User ID (iLink)
G	: Mac Address
	: Barcode

Confidential

5-2. Replacing the CPU

Note: We have two kinds of CPU for this set, and either of them is used.
     Two kinds of CPU have differences in the lock position and the unlock position.
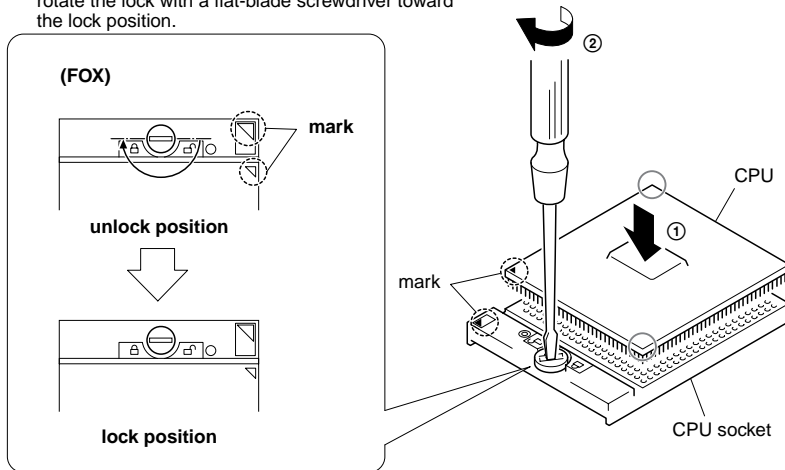
1. Socket configuration 1

1. How to remove the CPU

① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.
② Remove up the CPU.

(FOX)

lock position

unlock position

CPU

CPU socket

2. How to install the CPU

① Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.
② Pressing two corners marked with ◯ in the figure, rotate the lock with a flat-blade screwdriver toward the lock position.
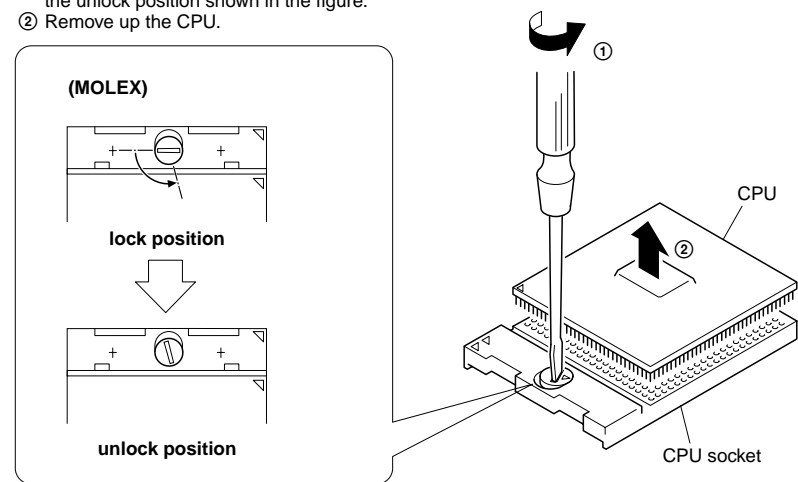

(FOX)

mark

unlock position

mark

lock position

CPU

CPU socket

Note: Lock the CPU properly, or operation becomes unstable.

2. Socket configuration 2

1. How to remove the CPU

① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.
② Remove up the CPU.

(MOLEX)

lock position

unlock position

CPU

CPU socket

2. How to install the CPU

① Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.
② Pressing two corners marked with ◯ in the figure, rotate the lock with a flat-blade screwdriver toward the lock position.

(MOLEX)

mark

unlock position

mark

lock position

CPU

CPU socket
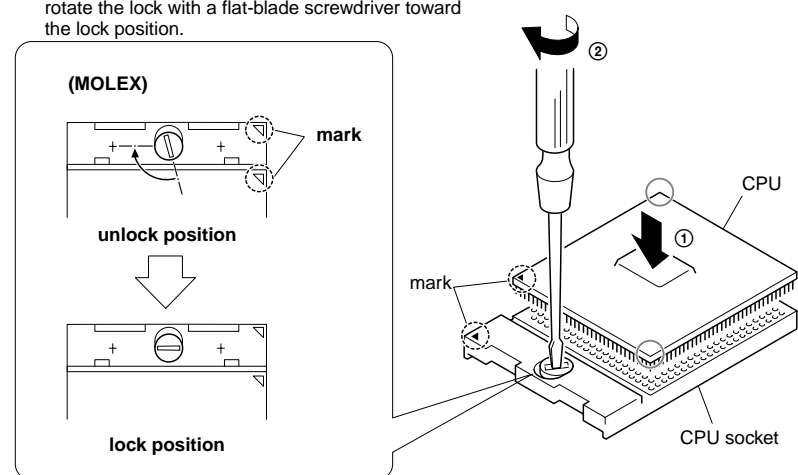
Note: Lock the CPU properly, or operation becomes unstable.

VAIO

PCG-V505G/V505T4/V505VZ (J)
PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
PCG-V505DP (EU)
PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)

List of PCG-V505 Series (As of April, 2004)

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-081-XX	PCG-V505/B PCG-V505R/PB			
9-876-082-XX		PCG-V505AX PCG-V505AXP		
9-876-084-XX		PCG-V505FP		
9-876-083-XX			PCG-V505AP PCG-V505AK PCG-V505BP	
9-876-085-XX				PCG-V505P
9-876-086-XX				PCG-V505L
9-876-088-XX				PCG-V505SP
9-876-089-XX				PCG-V505T
9-876-087-XX				PCG-V505CP PCG-V505ZCP
9-876-310-XX	PCG-V505E/B PCG-V505S/PB PCG-V505V/P			
9-876-311-XX		PCG-V505BL PCG-V505BX PCG-V505BXP		
9-876-312-XX		PCG-V505GFP PCG-V505GZFP		
9-876-313-XX				PCG-V505GP PCG-V505GZC
9-876-315-XX				PCG-V505GCP
9-876-314-XX				PCG-V505GL
9-876-316-XX				PCG-V505GSP
9-876-317-XX				PCG-V505GTP
9-876-357-XX		PCG-V505DC2∗ PCG-V505DC2K∗ PCG-V505DC2P∗		
9-876-346-XX		PCG-V505MFP		
9-876-348-XX				PCG-V505MZC PCG-V505MZNC
9-876-347-XX				PCG-V505MZL

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-349-XX	PCG-V505F/B PCG-V505T3/Px∗ PCG-V505T3x∗ PCG-V505W/P	PCG-V505DC1x∗ PCG-V505DC1Px∗ PCG-V505DH PCG-V505DX PCG-V505DXP	PCG-V505CP	PCG-V505MCP PCG-V505MLP PCG-V505MP PCG-V505MSP PCG-V505MTP
9-876-363-XX	PCG-V505G/B PCG-V505T4∗ PCG-V505T4/P∗ PCG-V505VZ/P	PCG-V505EC∗ PCG-V505ECP∗ PCG-V505EX PCG-V505EXP PCG-V505NFP	PCG-V505DP	PCG-V505MNCP PCG-V505MNJP PCG-V505MNP PCG-V505MNSP PCG-V505NTP

∗ : CTO Model

: Additional Models

Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2004.01.16	First Edition	
-02	Ver. 2	2004.01.20	△1 Page 1-2, Page 4-4	N2004_009CK
-03	Ver. 3	2004.01.26	△2 Front Page (Model Lineup), Page 1-1, Page 4-1 to 4-4, Page 4-6, Back Cover	N2004_007AK
-04	Ver. 4	2004.02.09	△3 Front Page (Model Lineup), Page 1-1, Page 1-3, Page 4-1 to 4-4, Page 4-6, Back Cover	N2004_016AK
-05	Ver. 5	2004.02.23	△4 Front Page (Model Lineup), Page 1-1, Page 4-1 to 4-4, Page 4-6, Back Cover	N2004_022AK
-06	Ver. 6	2004.04.21	△5 Front Page (Model Lineup), Page 1-1, Page 4-1 to 4-4, Page 4-6, Back Cover	N2004_046AK

<Remarks>

PCG-V505G/V505T4/V505VZ (J)
PCG-V505EC/V505ECP/V505EX/V505EXP/V505NFP (AM)
PCG-V505DP (EU)
PCG-V505MNCP/V505MNJP/V505MNP/V505MNSP/V505NTP (AO)